

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



10/540542



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/059233 A1

(51) International Patent Classification⁷: F28D 7/16,
B21D 53/06

(21) International Application Number:
PCT/US2003/039995

(22) International Filing Date:
17 December 2003 (17.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/436,546 24 December 2002 (24.12.2002) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant: ST. CLAIR SYSTEMS, INC. [US/US];
12427 31 Mile Road, Romeo, MI 48095 (US).

Declaration under Rule 4.17:
— of inventorship (Rule 4.17(iv)) for US only

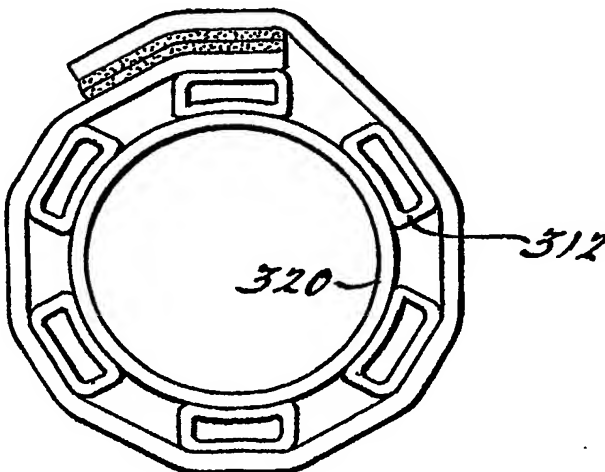
(71) Applicants and
(72) Inventors: BONNER, Michael, R. [US/US]; 5763
Clearview, Troy, MI 48098 (US). CLINE, William, A.
[US/US]; 2320 Pleasant View Drive, Rochester, MI 48306
(US).

Published:
— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(74) Agents: DUNN, Robert, A. et al.; Dinnin & Dunn, P.C.,
2701 Cambridge Ct., Suite 500, Auburn Hills, MI 48326
(US).

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROFILE TRACED INSULATED COVER ASSEMBLY



(57) Abstract: A cover assembly (10) is provided and in-
cludes a flexible fabric cover (21) within which a plurality of
elongate, hollow thermal transfer fluid profiles (12) is posi-
tioned. Each of the profiles includes an arcuate outer surface
(13) adapted to conform with an exterior of a fluid conduit
(20). The cover assembly may be fastened circumferentially
about a fluid conduit to position and maintain the profiles in
thermal contact therewith.

WO 2004/059233 A1